

S/N 09/560,121

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Todd A. Merritt

Examiner: Jung Kim

Serial No.: 09/560,121

Group Art Unit: 2816

Filed: April 28, 2000

Docket: 303.626US

Title: HIGH OUTPUT HIGH EFFICIENCY LOW VOLTAGE CHARGE PUMP

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Commissioner for Patents
Washington, D.C. 20231

Applicant has reviewed the Office Action mailed on June 15, 2001. Please amend the above-identified patent application as follows.

IN THE CLAIMS

Please substitute the claim set in the appendix entitled Clean Version of Pending Claims for the previously pending claim set. The substitute claim set is intended to reflect amendment of previously pending claims 1- 41. The specific amendments to individual claims are detailed in the following marked up set of claims.

1. (Once Amended) A charge pump, comprising:

a plurality of phase generators;

first and second preboot capacitors coupled to the plurality of phase generators;

first and second main pump capacitors coupled to the plurality of phase generators, and

the first and second preboot capacitors, respectively;

first and second pre-boot pre-charge capacitors coupled between the first and second main pump capacitors and the first and second preboot capacitors; and

first and second gating devices coupled to the first and second main pump capacitors, respectively.

2. (Once Amended) The charge pump of claim 1, wherein the first and second main pump capacitors [is] are prebooted to a first predetermined level by the first and second preboot capacitors during the first and second phases, respectively, wherein the first predetermined level [moved] moves to a second predetermined level in response to the plurality of phase generators during the first and second phases, respectively, wherein the second predetermined level is



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was described as 462 is to
coupled
bulk capacitors
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Fig. 4